UPX-2-1GB Release Notes

Important Note: *In order to upgrade firmware from version 1.x to 2.x the internal flash card needs to replaced. Please carefully follow the instruction shipped with the product to replace the flash card; otherwise the card may be damaged.*

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I. UPX-2-1GB Version History

Version 2.09.00.25

New Features

- Added support for Crestron DTT-15 v3 and DTT-17 v3 touch panels.

Version 2.09.00.23

Bug Fixes

- Garbage video pixels show up the right side of the video window.
- Sometimes fail to detect that the video signal has been lost for RGB input and HDTV.
- Fail to correctly display video source at resolution 1400x1050 @60 Hz.

Version 2.09.00.16

New Features

- Created multi-language package to allow viewing documents in 33 languages with all embedded applications.
- Added support to allow nevigating to PowerPoint previous or next slide under slide show mode by reserved joins.

Bug Fixes

- MacroMedia Flash doesn't work.
- Real Player doesn't restart after trying to add new playlist.
- Pressing on a button on a popup window with pen or finger in annotation mode is not always processed.
- Clock object doesn't update on popup windows.
- Elliptical Controls with drop shadow and translucent effect don't display properly.
- Extruded controls with translucent effects don't display properly.

- Overlapped subpage references with translucent effects sometimes don't display.
- Subpage leaves artifacts when it pans in.
- Auto-calibration on dark color background always fails.
- Video image in a video window on local touch panel may shift.
- Video pixels from two nearby video windows overlap.
- Video/RGB image is always over-cropped.

Version 2.09.00.06

New Features

- Allow assigning functionality to side button of the DTT pen from setup page.
- Improved default calibration settings for DTTs.
- Correctly detect RGB input sources at resolutions 640x480, 800x600, 1024x768, 1152x864, 1280x720, 1280x768, 1280x960, 1280x1024, 1400x1050, 1600x1200 at frequencies 60, 70, 72, 75, and 85 Hz.
- Updated Microsoft viewer version to 2003 from 97.
- Added support for international text - static and indirect.

Bug Fixes

- Sometimes the touch driver fails to recognize the DTT-15 v2 and treats it as a Wacom touch panel.
- Some touch panels make chirp noise periodically.
- Connecting to UPX-2-1GB by Toolbox causes error messages being popupped up on UPX-2-1GB.
- Crash on Real Player after startup.
- Recalling video/rgb presets didn't correctly.
- Auto calibration of RGB sources didn't work properly.
- Video/rgb window rendering artifacts at left and top sides.
- Controls on a bottom supage reference can sometimes be rendered on a top subpage reference.
- Update request wasn't issued from UPX after control system exits passto mode.
- Initial update with join number remapping didn't work properly.
- Improved annotation using pen with hand rest on DTT touch screen.
- Extra lines were drawn when annotating using pen after cycling the power of the 15" DTT.
- Crash when entering a host name longer than 15 characters.
- Initial calibration message got cut off screen at display resolution 800x600.
- MIC didn't work properly.
- Touch driver crashes when tapping on the Detect button on calibration setup dialog.
- Glitch on HDTV input.
- Bar code - like garbage pixels on screen capture.
- Embossed text wasn't rendered correctly.
- The erase functionality didn't work correctly inside MediaMarker application and under annotation mode.
- MediaMarker application didn't get closed after entering setup mode.
- Unpausing annotation mode could reset theme values in MediaMarker.
- Pressing on a button on setup screen sometimes failed to open the corresponding setup dialog.
- TSID commands didn't work properly.
- Crash when loading a dynamic graphics file with invalid path.

Version 2.08.00.02

New Features

- Added support for 17" DTT panel and Cybertouch panel.
- Added dynamic graphics support.
- Added PNG and GIF support.

- Added video/rgb preset support.
- Added support for Axis ActiveX controls.
- Added support for Remote Desktop Client.
- Added support for Internet Explorer and Windows Media Player skin mode.
- Added support to allow set internet security level to high, medium, or low.
- Added support for Java run-time - enables viewing of Java based websites.
- Added support for touch-in via Cresnet and Ethernet.
- Made change to speed up uploading project.
- Enabled proxy server configureation.
- Added support to allow adjusting internet security level for each zone separately.
- Added IPCONFIG console command.
- Added console command (EnableStandby) to allow enter/exit standby mode.
- Added support to allow simulate button click from debugger window.
- Added support to allow selecting different cursor type for annoation.
- Allow exiting annotation mode before screen capture completes.
- Added support to allow the changing highlite translucent level.
- Added support to allow programmatically setting annotation properties (e.g., color, line thickness, etc.) via device extender.
- Added support to allow the mapping of the Pen and Pen Side Button to a particular function (ex: eraser, clear, etc).
- MediaMarker:
  - Added the button, “Advanced…” to Session Info dialog box. This will open the "Annotation Mode" page within Edit|Prefs.
  - The number of Themes (Edit|Pref|Themes) is now limited to a max of 25 files to avoid exhansting memory.
  - Enhanced screen capture functionality to allow the screen captures to appear as a new frame and thumbnail upon completion of the capture.
  - Added Scale to Fit and Actual Size feature.
  - Added Gallery Mode.
  - Added support for .GIF files.
  - Added Screen Shade feature.
  - Added Import File Utility.

Bug Fixes

- Fixed a bugs to ensure correct analog feedback is sent to control system when video property value is changed from UPX.
- Fixed a bug to automatically reconnect control system via DHCP after control system IP address changed.
- Made sure to re-synchronize with control system upon exiting passto mode.
- Fixed bugs so commands PING, HOSTNAME, RTSCTS, ADDM work correctly.
- Fixed a bug to maintain audio mute status after the unit reboots.
- Fixed a bug to avoid artifacts in the shrinked video window with live composite video on both 2A and output B.
- Made changes to exit annotation mode when loading a new project.
- Fixed a bug to ensure that the digital feedback be sent to control system for MediaMarker.
- MediaMarker:
  - MediaMarker - Fixed bug where screen resolution didn't update any existing frames. The current frame will now change screen resolution providing that no drawing has been made to that frame.
  - Fixed bug where "Copy Frame" didn’t copy background image.
  - Fixed bug where MRU List didn’t display previously opened files.
  - Fixed bug where switching the filetype in Edit|Prefs didn’t change the filetype until after MediaMarker is restarted.

Version 1.01.01.52

- Fixed a bug to prevent an error message from being popped up when selecting File | Open menu from Word Viewer.
- Fixed a bug to prevent multiple Word Viewer instances being created when a new file is selected from the file dialog.
- Restored gray level to the original setting in previous build for source RGB-1.
- Fixed a bug that can cause firmware update to fail after screen capture.

Version 1.01.01.47

- Fixed a crash when clicking on the formula bar on Excel Viewer.

Version 1.01.01.46

- Added support for DTT-15s and DTT-15V2.
- Fixed a bug that can cause the compact flash gets corrupted and the unit stuck to a Window's message "An unexpected error has occurred. The unit has been restored to manufacture default settings. Please reboot your unit. If the problem persists, please contact your technical support".
- Fixed a video timing issue which can degrade the video quality.
- Added support for RGB input of 1280 x 768 @60 Hz.
- Fixed a bug avoid flickering when displaying 1080i video sources at the PAL frequency.
- Fixed a bug to properly lock the 1080i 50 video signal.
- Fixed a bug that can cause switching output B source to act strange if the output source is not assigned.
- Fixed a bug so the video manual calibration is still used even a new resolution is detected.
- Fixed a bug that causes video source not to be shown under certain situations.
- Fixed a HDTV incorrect color problem.
- Fixed a bug to ensure 576i video source to be recognized.
- Added support to display 16 x 9 video/rgb input properly.
- Fixed a bug to get rid of the artifacts when rendering video sources in a shrinked video window.
- Fixed a 1080i video display on the right side.
- By default no longer have the USERDISK shared.

Version 1.01.00.45

- Updated Excel, Word and PowerPoint viewers to the latest 2003 versions. As a field update, this must be done in two parts. Upgrade the firmware as normal using Part A and repeat with Part B

Version 1.0.44

- Initial release of UPX-2-1GB

II. Programming Requirements

To program UPX-2-1GB, the following compatible versions of products are required:

VTPro-e

```
Version 3.4.3.1
```

SIMPL Window

```
Version 2.05.22
```

Control Systems OS

```
Version 3.137
```

Crestron Database

```
Version 17.4.4
```

III. Tips for Programming UPX-2-1GB

UPX-2-1GB is a complex product requiring knowledges in many areas. This section is intended to shed light in certain areas to help the programmer speed up development and optimize run-time performance.

Setup Screen

- Always press Save & Reboot button on the setup screen in order to commit your changes. Reboot using the power switch would lose all changes.
- Users can change the default screen capture file location from the Annotation dialog box.

Embedded Applications

- Always initialize application position and size analog values and serial path before sending in digital/analog value to open the application. This would ensure that the application window be created at the desired location with the file loaded without excessive flashing on screen.
- Try not to leave multiple application open simultaneously to optimize the system performance.
- In order to programmatically open files on network resources (via serial join) that require a password, you should map the required drives as noted below.
- Users can browse the network using the file open dialogs but may need to enter a user name and password.
- Typing a full path name into the file open dialog will not work if there is not an existing connection. You must first type only the server and share name before adding subfolder names. Ex. \\my_server\some_share will prompt for a username and password but \\my_server\some_share\a_folder\mydoc.doc will only say the resource is unknown.
- In the default path assigned in VTPro-e, a single "\" rather than double "\\" should be used before a folder name or file name in order for the default path and file dialog to work properly. Ex. "g:\embedded apps\crestron.ppt".

Network Connections

- From the setup pages (Security) you can map commonly used network drives. All current connections are displayed for convenience, but only those labeled as persistent will be restored upon reboot.
- You can enter a username and password to automatically logon if you wish. This username and password will be stored as encrypted data on the UPX-2-1GB. If you do not supply a username and password (or if it is incorrect) you will be prompted upon restarting. If you are immediately prompted with a second request for a password, you probably do not have the proper credentials entered.
- You can test network mapping restoration by clicking on the "Close Browsed Network Connections" button. This would close all non-persistent connection and remap all persistent connections.
- If you receive the error "A specified logon session does not exist. It may have already been terminated." You may need to put in a domain or workgroup name as part of your username. For example, domain\username.
- The close network connections join (or button on the security page) will close ALL connections and

then attempt to reconnect persistent drives. This will allow the user to re-prompted for a password as noted above.
- In order to change or add a drive letter to an existing connection, you must remove it and re-add it. You can change the username, password, and whether the connection is to be remembered on existing connections.

Touch Configuration

- A Crestron DTT consists of two separate touch devices, Crestron DTT, USB and Crestron DTT, Pen, USB. Both must be added and calibrated separately for the DTT to function properly.
- If you have two DTTs connected, you will need to add both devices to the list of installed devices twice for a total of four touch devices.
- The “name” which is entered for the device is for the end-user’s convenience and is displayed only during calibration.
- After a new firmware is installed the panel needs to be re-calibrated.

Screen Capture

- Screen Capture files are saved to the folder specified within the Session Wizard. The Session Wizard is available in both the MediaMarker Notebook and through a reserve join number.
- All Screen Capture errors (invalid folder, insufficient disk space, etc.) trigger the User-Defined Error Code Reserve Join Number with the analog value indicating the specific error.
- Screen Captures to the MediaMarker Notebook will save the annotation drawing objects separate from the background image. These drawing objects can then be modified within the MediaMarker Notebook. Screen Captures to a folder will incoorporate the annotation drawing objects into the background image.
- Changing the Background Image type and/or quality can affect the saved project file or image size. This can be modified within the MediaMarker Notebook under Edit|Preferences|Application Settings.

Project

- If one wants to upload the project to an external CF card, a sub-directory instead of the root should be used as the Project Working Path; otherwise uploading files may fail.

IV. Special Packs

- Multi-language pack to allow viewing documents in 33 languages with all embedded applications (upx-2_1gb_MLP_2.0.csz).
- Macro Media Flash version 9.0 (upx-2_1gb_FLASH_9.0.csz).

V. Known Issues

- If the power of DTT-2 v2 is turned off and then on within 2 seconds then the pen will no longer respond. Turning the power off and then on 2 seconds or more later would fix the problem. Similarly, after the DTT cabe is unplugged it should be re-plugged in 2 seconds or more later in order for both touch and pen to work properly.
- Console commands IPA, IPM, DEFR, DHCP don't always work reliably and have been disabled - suggest to modify Ethernet settings from UPX-2-1GB setup screen rather than from Toolbox.
- Broadcast Indirect Text symbol from SimplWin is not supported. Tie the Serial signal directly to each touch panel symbol instead.

- If a USB flash reader is plugged in the unit but no flash card inserted or some brands of USB mouse is plugged in the front port, UPX wouldn't start. Removal of the USB device and cycling the power should fix the problem.
- No wireless adapter is supported yet.
- If no letter is mapped to a network connection, openning and then closing a file on that network may close the connection too.
- Downgrading firmware to v2.08.00.02 may cause reserved join settings not to be properly retrieved if reserved serial joins are used in the user's program. Whenever this happens an error message "An unexcpected error occurred and not everything was restored properly. Reboot and if the problem persists contact crestron tech support." will be popupped. Rebooting the unit should fix the problem.
- Translucent subpage references with dissolved effect wouldn't be rendered properly. Suggest to use these two effects separately.